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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,060	03/11/2004	Tadashi Hara	ONO-112	4692
35777	7590 06/30/2005		EXAMINER	
SHERMAN & SHALLOWAY 415 NORTH ALFRED STREET			BERMAN, SUSAN W	
	IA, VA 22314		ART UNIT	PAPER NUMBER
			1711	
			DATE MAILED: 06/30/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/797,060	HARA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Susan W. Berman	1711			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, are - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1.  1.136(a). In no event, however, may a reply within the statutory minimum of third will apply and will expire SIX (6) MON ute, cause the application to become AE	ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a)☐ This action is <b>FINAL</b> . 2b)☒ Tr					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	). 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examin	ner.	·			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the I	•	, ,			
Priority under 35 U.S.C. § 119		2 3 1100 7 (311011 01 101111 1 1 1 1 1 2 1 1 2 1 1			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date 1/05 2 pages.</li> </ol>		s)/Mail Date  Iformal Patent Application (PTO-152)			

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0 896 043. EP '043 discloses compositions for dental use comprising photopolymerization initiators that can be used singly or as mixtures. Photoinitiators disclosed comprise an alpha-diketone and tertiary amine, wherein the amines can be use singly or in combinations, anyl borates and photacid generator, See paragraphs [0071], [0072], [0078] and [0080]. Halomethyl group-substituted s-triazine derivatives are taught as being useful photoacid generators. The examples disclose combinations of camphorquinone with mixtures of amines. It would have been obvious to one skilled in the art at the time of the invention to employ a mixture of the photoinitiators disclosed by EP '043. One of ordinary skill in the art at the time of the invention would have been motivated by a reasonable expectation of providing effective photoinitiation for a polymerizable composition, as taught by EP '043. EP '043 teaches photoinitiators corresponding to the photointiators set forth in the instant claims and that mixtures of the photointiators can be used. It would have been obvious to one skilled in the art at the time of the invention to select an alpha-diketone, such as camphorquinone, in combination with a mixture of an aromatic amine and an aliphatic amine, as shown in the examples of EP '043. It would have been obvious to one skilled in the art at the time of the invention to include a halomethyl group-substituted s-triazine derivatives photoacid generator in order to take advantage of the acid generated for curing the compositions, as taught by EP '043.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan W. Berman whose telephone number is 571 272 1067. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571 272 1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan W Berman Primary Examiner Art Unit 1711

SB 6/25/05